

**Marcantoni, Paul**

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**Sent:** Friday, August 04, 2006 9:18 PM  
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AN 123:294864 CA

ED Entered STN: 25 Nov 1995

TI Manufacture of reactive inorganic filler useful as **cement** substitute

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PA Shimizu Construction Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C04B014-04

    ICS C04B024-42

CC 58-1 (Cement, Concrete, and Related Building Materials)

FAN.CNT 1

| PATENT NO.                 | KIND | DATE     | APPLICATION NO.       | DATE     |
|----------------------------|------|----------|-----------------------|----------|
| PI <u>JP 07196348</u>      | A2   | 19950801 | <u>JP 1993-353011</u> | 19931228 |
| PRAI <u>JP 1993-353011</u> |      |          |                       | 19931228 |

CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

JP 07196348 ICM C04B014-04

    ICS C04B024-42

    IPCI C04B0014-04 [ICM,6]; C04B0014-02 [ICM,6,C\*];  
    C04B0024-42 [ICS,6]; C04B0024-00 [ICS,6,C\*]

AB SiO<sub>2</sub>-contg. inorg. filler, preferably selected from diatomaceous earth, silica sand, SiO<sub>2</sub>-contg. **volcanic ash**, **fly ash**, siliceous stone, and quartz, is treated with an activating agent and reacted with NH<sub>3</sub> or amine compd. or treated with acid or base to obtain reactive inorg. filler. The activating agent is preferably silicon halide or SiCl<sub>4</sub>.

ST diatomaceous earth reactive filler; silica sand reactive filler;

**volcanic ash** reactive filler; **fly ash** reactive filler; siliceous stone reactive filler; quartz reactive fill